Wu, Yik-Chung

List of Publications by Year
in descending order

176 papers	4,150 citations	147801 31 h-index	133252 59 g-index
176 all docs	176 docs citations	176 times ranked	3033 citing authors

#	Article	IF	Citations
1	Clock Synchronization of Wireless Sensor Networks. IEEE Signal Processing Magazine, 2011, 28, 124-138.	5.6	498
2	A General Robust Linear Transceiver Design for Multi-Hop Amplify-and-Forward MIMO Relaying Systems. IEEE Transactions on Signal Processing, 2013, 61, 1196-1209.	5.3	181
3	Clock Synchronization in Wireless Sensor Networks: An Overview. Sensors, 2009, 9, 56-85.	3.8	167
4	Robust Joint Design of Linear Relay Precoder and Destination Equalizer for Dual-Hop Amplify-and-Forward MIMO Relay Systems. IEEE Transactions on Signal Processing, 2010, 58, 2273-2283.	5.3	165
5	Load/Price Forecasting and Managing Demand Response for Smart Grids: Methodologies and Challenges. IEEE Signal Processing Magazine, 2012, 29, 68-85.	5.6	157
6	Joint Time Synchronization and Localization of an Unknown Node in Wireless Sensor Networks. IEEE Transactions on Signal Processing, 2010, 58, 1309-1320.	5.3	153
7	Wirelessly Powered Two-Way Communication With Nonlinear Energy Harvesting Model: Rate Regions Under Fixed and Mobile Relay. IEEE Transactions on Wireless Communications, 2017, 16, 8190-8204.	9.2	126
8	Distributed Clock Synchronization for Wireless Sensor Networks Using Belief Propagation. IEEE Transactions on Signal Processing, 2011, 59, 5404-5414.	5.3	113
9	On Clock Synchronization Algorithms for Wireless Sensor Networks Under Unknown Delay. IEEE Transactions on Vehicular Technology, 2010, 59, 182-190.	6.3	110
10	Timing Estimation and Resynchronization for Amplify-and-Forward Communication Systems. IEEE Transactions on Signal Processing, 2010, 58, 2218-2229.	5.3	88
11	DoA Estimation and Capacity Analysis for 3-D Millimeter Wave Massive-MIMO/FD-MIMO OFDM Systems. IEEE Transactions on Wireless Communications, 2016, 15, 6963-6978.	9.2	84
12	Distributed Hybrid Power State Estimation Under PMU Sampling Phase Errors. IEEE Transactions on Signal Processing, 2014, 62, 4052-4063.	5.3	82
13	Joint CFO and Channel Estimation for Multiuser MIMO-OFDM Systems With Optimal Training Sequences. IEEE Transactions on Signal Processing, 2008, 56, 4008-4019.	5.3	79
14	Timing Synchronization in Decode-and-Forward Cooperative Communication Systems. IEEE Transactions on Signal Processing, 2009, 57, 1444-1455.	5.3	71
15	A distributed multihop time synchronization protocol for wireless sensor networks using Pairwise Broadcast Synchronization. IEEE Transactions on Wireless Communications, 2009, 8, 1764-1772.	9.2	67
16	Low-Complexity Maximum-Likelihood Estimator for Clock Synchronization of Wireless Sensor Nodes Under Exponential Delays. IEEE Transactions on Signal Processing, 2011, 59, 4860-4870.	5.3	66
17	Transceiver Design for Dual-Hop Nonregenerative MIMO-OFDM Relay Systems Under Channel Uncertainties. IEEE Transactions on Signal Processing, 2010, 58, 6325-6339.	5.3	61
18	Exact Performance Analysis of Dual-Hop Semi-Blind AF Relaying over Arbitrary Nakagami-m Fading Channels. IEEE Transactions on Wireless Communications, 2011, 10, 3449-3459.	9.2	61

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19	Joint CFO and Channel Estimation for OFDM-Based Two-Way Relay Networks. IEEE Transactions on Wireless Communications, 2011, 10, 456-465.	9.2	58
20	Distributed Clock Skew and Offset Estimation in Wireless Sensor Networks: Asynchronous Algorithm and Convergence Analysis. IEEE Transactions on Wireless Communications, 2013, 12, 5908-5917.	9.2	54
21	Subspace Identification for DOA Estimation in Massive/Full-Dimension MIMO Systems: Bad Data Mitigation and Automatic Source Enumeration. IEEE Transactions on Signal Processing, 2015, 63, 5897-5909.	5.3	50
22	Probabilistic Tensor Canonical Polyadic Decomposition With Orthogonal Factors. IEEE Transactions on Signal Processing, 2017, 65, 663-676.	5.3	50
23	On Convergence Conditions of Gaussian Belief Propagation. IEEE Transactions on Signal Processing, 2015, 63, 1144-1155.	5.3	46
24	Robust Transceiver with Tomlinson-Harashima Precoding for Amplify-and-Forward MIMO Relaying Systems. IEEE Journal on Selected Areas in Communications, 2012, 30, 1370-1382.	14.0	45
25	On the design and efficient implementation of the Farrow structure. IEEE Signal Processing Letters, 2003, 10, 189-192.	3.6	44
26	Space Shift Keying With Reconfigurable Intelligent Surfaces: Phase Configuration Designs and Performance Analysis. IEEE Open Journal of the Communications Society, 2021, 2, 322-333.	6.9	44
27	Efficient Communication of Sensors Monitoring Overhead Transmission Lines. IEEE Transactions on Smart Grid, 2012, 3, 1130-1136.	9.0	42
28	Distributed Clock Parameters Tracking in Wireless Sensor Network. IEEE Transactions on Wireless Communications, 2013, 12, 6464-6475.	9.2	39
29	Superimposed Training-Based Channel Estimation and Data Detection for OFDM Amplify-and-Forward Cooperative Systems Under High Mobility. IEEE Transactions on Signal Processing, 2012, 60, 274-284.	5.3	33
30	Machine Intelligence at the Edge With Learning Centric Power Allocation. IEEE Transactions on Wireless Communications, 2020, 19, 7293-7308.	9.2	32
31	Pilot-Aided IQ Imbalance Compensation for OFDM Systems Operating Over Doubly Selective Channels. IEEE Transactions on Signal Processing, 2011, 59, 2223-2233.	5.3	31
32	Exact Outage Probability of Dual-Hop CSI-Assisted AF Relaying Over Nakagami-m Fading Channels. IEEE Transactions on Signal Processing, 2012, 60, 5578-5583.	5.3	31
33	Timing-Synchronization Analysis for IEEE 802.11a Wireless LANs in Frequency-Nonselective Rician Fading Environments. IEEE Transactions on Wireless Communications, 2004, 3, 387-394.	9.2	30
34	Joint Maximum-Likelihood CFO and Channel Estimation for OFDMA Uplink Using Importance Sampling. IEEE Transactions on Vehicular Technology, 2008, 57, 3462-3470.	6.3	29
35	Design of multiplierless correlators for timing synchronization in IEEE 802.11a wireless LANs. IEEE Transactions on Consumer Electronics, 2003, 49, 107-114.	3.6	28
36	Non-Orthogonal Opportunistic Beamforming: Performance Analysis and Implementation. IEEE Transactions on Wireless Communications, 2012, 11, 1424-1433.	9.2	28

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37	Energy-Efficient Non-Orthogonal Multicast and Unicast Transmission of Cell-Free Massive MIMO Systems With SWIPT. IEEE Journal on Selected Areas in Communications, 2021, 39, 949-968.	14.0	28
38	Learning Nonnegative Factors From Tensor Data: Probabilistic Modeling and Inference Algorithm. IEEE Transactions on Signal Processing, 2020, 68, 1792-1806.	5.3	26
39	Index Modulation Aided Subcarrier Mapping for Dual-Hop OFDM Relaying. IEEE Transactions on Communications, 2019, 67, 6012-6024.	7.8	25
40	Maximum-likelihood symbol synchronization for IEEE 802.11a WLANs in unknown frequency-selective fading channels. IEEE Transactions on Wireless Communications, 2005, 4, 2751-2763.	9.2	24
41	On Low Complexity Robust Beamforming With Positive Semidefinite Constraints. IEEE Transactions on Signal Processing, 2009, 57, 4942-4945.	5.3	24
42	Multipair Two-Way Relay Network With Harvest-Then-Transmit Users: Resolving Pairwise Uplink-Downlink Coupling. IEEE Journal on Selected Topics in Signal Processing, 2016, 10, 1506-1521.	10.8	24
43	NOMA-Based Pervasive Edge Computing: Secure Power Allocation for IoV. IEEE Transactions on Industrial Informatics, 2021, 17, 5021-5030.	11.3	24
44	Network-Wide Distributed Carrier Frequency Offsets Estimation and Compensation via Belief Propagation. IEEE Transactions on Signal Processing, 2013, 61, 5868-5877.	5.3	23
45	Convergence Analysis of the Variance in Gaussian Belief Propagation. IEEE Transactions on Signal Processing, 2014, 62, 5119-5131.	5.3	23
46	Symbol-timing estimation in space-time coding systems based on orthogonal training sequences. IEEE Transactions on Wireless Communications, 2005, 4, 603-613.	9.2	22
47	Activity Detection for Massive Connectivity Under Frequency Offsets via First-Order Algorithms. IEEE Transactions on Wireless Communications, 2019, 18, 1988-2002.	9.2	22
48	Convergence Analysis of Gaussian Belief Propagation Under High-Order Factorization and Asynchronous Scheduling. IEEE Transactions on Signal Processing, 2019, 67, 2884-2897.	5.3	22
49	Extension of Pairwise Broadcast Clock Synchronization for Multicluster Sensor Networks. Eurasip Journal on Advances in Signal Processing, 2007, 2008, .	1.7	21
50	Scaling Probabilistic Tensor Canonical Polyadic Decomposition to Massive Data. IEEE Transactions on Signal Processing, 2018, 66, 5534-5548.	5.3	21
51	Estimation and Compensation of CFO and I/Q Imbalance in OFDM Systems Under Timing Ambiguity. IEEE Transactions on Vehicular Technology, 2011, 60, 1200-1205.	6.3	20
52	Fully distributed clock synchronization in wireless sensor networks under exponential delays. Signal Processing, 2016, 125, 261-273.	3.7	20
53	Towards Flexible Sparsity-Aware Modeling: Automatic Tensor Rank Learning Using the Generalized Hyperbolic Prior. IEEE Transactions on Signal Processing, 2022, 70, 1834-1849.	5.3	20
54	Irregular Array Manifold Aided Channel Estimation in Massive MIMO Communications. IEEE Journal on Selected Topics in Signal Processing, 2019, 13, 974-988.	10.8	19

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55	Iterative transceiver design for MIMO AF relay networks with multiple sources. , 2010, , .		18
56	Probabilistic QoS Constrained Robust Downlink Multiuser MIMO Transceiver Design with Arbitrarily Distributed Channel Uncertainty. IEEE Transactions on Wireless Communications, 2013, 12, 6292-6302.	9.2	18
57	Impacts of multipath fading on the timing synchronization of IEEE 802.11a wireless LANs. , 0, , .		17
58	Design and analysis of feedforward symbol timing estimators based on the conditional maximum likelihood principle. IEEE Transactions on Signal Processing, 2005, 53, 1908-1918.	5.3	17
59	Symbol timing recovery for GMSK modulation based on squaring algorithm. IEEE Communications Letters, 2001, 5, 221-223.	4.1	16
60	Cooperative beamforming for dual-hop amplify-and-forward multi-antenna relaying cellular networks. Signal Processing, 2012, 92, 2689-2699.	3.7	16
61	Massive Access in Secure NOMA Under Imperfect CSI: Security Guaranteed Sum-Rate Maximization With First-Order Algorithm. IEEE Journal on Selected Areas in Communications, 2021, 39, 998-1014.	14.0	16
62	Exploiting Reconfigurable Intelligent Surfaces in Edge Caching: Joint Hybrid Beamforming and Content Placement Optimization. IEEE Transactions on Wireless Communications, 2021, 20, 7799-7812.	9.2	16
63	Socially Aware Joint Resource Allocation and Computation Offloading in NOMA-Aided Energy-Harvesting Massive IoT. IEEE Internet of Things Journal, 2021, 8, 5240-5249.	8.7	16
64	Edge Federated Learning via Unit-Modulus Over-The-Air Computation. IEEE Transactions on Communications, 2022, 70, 3141-3156.	7.8	16
65	Intelligent-Reflecting-Surface-Aided Mobile Edge Computing With Binary Offloading: Energy Minimization for IoT Devices. IEEE Internet of Things Journal, 2022, 9, 12973-12983.	8.7	16
66	Tight Probabilistic SINR Constrained Beamforming Under Channel Uncertainties. IEEE Transactions on Signal Processing, 2015, 63, 3490-3505.	5.3	15
67	Energy Efficient Transmission in Multi-User MIMO Relay Channels With Perfect and Imperfect Channel State Information. IEEE Transactions on Wireless Communications, 2017, 16, 3885-3898.	9.2	15
68	Energy-Efficient Precoding for Non-Orthogonal Multicast and Unicast Transmission via First-Order Algorithm. IEEE Transactions on Wireless Communications, 2019, 18, 4590-4604.	9.2	15
69	Ml joint CFO and channel estimation in OFDM systems with timing ambiguity. IEEE Transactions on Wireless Communications, 2008, 7, 2436-2440.	9.2	14
70	Semiblind Iterative Data Detection for OFDM Systems with CFO and Doubly Selective Channels. IEEE Transactions on Communications, 2010, 58, 3491-3499.	7.8	14
71	Convergence analysis of the information matrix in Gaussian Belief Propagation. , 2017, , .		14
72	Space-Time Signal Optimization for SWIPT: Linear Versus Nonlinear Energy Harvesting Model. IEEE Communications Letters, 2018, 22, 408-411.	4.1	14

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74	On joint synchronization of clock offset and skew for Wireless Sensor Networks under exponential delay. , 2010, , .		13
75	First-Order Algorithm for Content-Centric Sparse Multicast Beamforming in Large-Scale C-RAN. IEEE Transactions on Wireless Communications, 2018, 17, 5959-5974.	9.2	12
76	Caching at Base Stations With Multi-Cluster Multicast Wireless Backhaul via Accelerated First-Order Algorithms. IEEE Transactions on Wireless Communications, 2020, 19, 2920-2933.	9.2	12
77	Secure Multicast Energy-Efficiency Maximization With Massive RISs and Uncertain CSI: First-Order Algorithms and Convergence Analysis. IEEE Transactions on Wireless Communications, 2022, 21, 6818-6833.	9.2	12
78	Low-Complexity Feedforward Symbol Timing Estimator Using Conditional Maximum-Likelihood Principle. IEEE Communications Letters, 2004, 8, 168-170.	4.1	11
79	Unified analysis of a class of blind feedforward symbol timing estimators employing second-order statistics. IEEE Transactions on Wireless Communications, 2006, 5, 737-742.	9.2	10
80	CFO estimation in OFDM systems under timing and channel length uncertainties with model averaging. IEEE Transactions on Wireless Communications, 2010, 9, 970-974.	9.2	10
81	Signal Detection for OFDM-Based Virtual MIMO Systems under Unknown Doubly Selective Channels, Multiple Interferences and Phase Noises. IEEE Transactions on Wireless Communications, 2013, 12, 5309-5321.	9.2	10
82	Dual-Polarized Spatial Media-Based Modulation. IEEE Journal on Selected Topics in Signal Processing, 2019, 13, 1258-1269.	10.8	10
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84	On the symbol timing recovery in space-time coding systems. , 0, , .		9
85	Symbol timing estimation in MIMO correlated flat-fading channels. Wireless Communications and Mobile Computing, 2004, 4, 773-790.	1.2	9
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89	Comments on "Class of Cyclic-Based Estimators for Frequency-Offset Estimation of OFDM Systems". IEEE Transactions on Communications, 2005, 53, 413-414.	7.8	8
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92	Robust transceiver design for AF MIMO relay systems with column correlations. , 2011, , .		8
93	Edge Learning With Unmanned Ground Vehicle: Joint Path, Energy, and Sample Size Planning. IEEE Internet of Things Journal, 2021, 8, 2959-2975.	8.7	8
94	New implementation of a GMSK demodulator in linear software radio receiver. , 0, , .		7
95	Data-aided maximum likelihood symbol timing estimation in MIMO correlated fading channels. , 0, , .		7
96	Symbol-timing synchronization in space-time coding systems using orthogonal training sequences. , 2004, , .		7
97	Joint CFO and Channel Estimation for ZP-OFDM Modulated Two-Way Relay Networks. , 2010, , .		7
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101	Overfitting Avoidance in Tensor Train Factorization and Completion: Prior Analysis and Inference. , 2021, , .		7
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104	Low Complexity Pre-Equalization Algorithms for Zero-Padded Block Transmission. IEEE Transactions on Wireless Communications, 2010, 9, 2498-2504.	9.2	6
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110	Learning to Construct Nested Polar Codes: An Attention-Based Set-to-Element Model. IEEE Communications Letters, 2021, 25, 3898-3902.	4.1	5
111	Probabilistic Tensor Train Decomposition with Automatic Rank Determination from Noisy Data. , 2021, , .		5
112	Robust beamforming for amplify-and-forward MIMO relay systems based on quadratic matrix programming. , 2010, , .		4
113	Data detection for cooperative vehicular communication systems with unknown channels. , 2010, , .		4
114	Achieving global optimality for wirelessly-powered multi-antenna TWRC with lattice codes. , 2016, , .		4
115	Convergence analysis of belief propagation for pairwise linear Gaussian models. , 2017, , .		4
116	Set Squeezing Procedure for Quadratically Perturbed Chance-Constrained Programming. IEEE Transactions on Signal Processing, 2021, 69, 682-694.	5.3	4
117	A new multiplierless correlator for timing synchronization in IEEE 802.11a WLANs. , 0, , .		3
118	ML symbol synchronization for OFDM-based WLANs in unknown frequency-selective fading channels. , 0, , .		3
119	Optimal Joint CFO and Channel Estimation in Quasi-Synchronized OFDM Systems. , 2007, , .		3
120	Iterative LMMSE transceiver design for dual-hop AF MIMO relay systems under channel uncertainties. , 2009, , .		3
121	Bayesian CFO Estimation in OFDM Systems. , 2009, , .		3
122	Robust linear transceiver design for multi-hop non-regenerative MIMO relaying systems. , 2011, , .		3
123	Fully-distributed joint clock synchronization and ranging in wireless sensor networks under exponential delays. , 2014, , .		3
124	Quality of Service Constrained Wirelessly Powered Communication with Multiple Antennas. , 2016, , .		3
125	Distributed Verification of Belief Precisions Convergence in Gaussian Belief Propagation. , 2020, , .		3
126	Cooperative Beamforming for Wireless Fronthaul and Access Links in Ultra-Dense C-RANs With SWIPT: A First-Order Approach. IEEE Journal on Selected Topics in Signal Processing, 2021, 15, 1242-1257.	10.8	3

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127	FPGA implementation of digital timing recovery in software radio receiver. , 0, , .		2
128	Bayesian Robust Linear Transceiver Design for Dual-Hop Amplify-and-Forward MIMO Relay Systems. , 2009, , .		2
129	On Performance Bounds for Timing Estimation under Fading Channels. , 2009, , .		2
130	Joint Localization and Time Synchronization in Wireless Sensor Networks with Anchor Uncertainties. , 2009, , .		2
131	Joint channel estimation and data detection for OFDM systems over doubly selective channels. , 2009, , .		2
132	Linear Transceiver Design for Amplify-And-Forward MIMO Relay Systems under Channel Uncertainties. , 2010, , .		2
133	IQ imbalance compensation: A semi-blind method for OFDM systems in fast fading channels. , 2010, , .		2
134	Joint Robust Weighted LMMSE Transceiver Design for Dual-Hop AF Multiple-Antenna Relay Systems. , 2011, , .		2
135	Author's Reply to â€œComments on `Timing Estimation and Resynchronization for Amplify-and-Forward Communication Systems'â€. IEEE Transactions on Signal Processing, 2011, 59, 4048-4049.	5.3	2
136	Distributed CFOs estimation and compensation in multi-cell cooperative networks. , 2013, , .		2
137	Distributed Bayesian hybrid power state estimation with PMU synchronization errors. , 2014, , .		2
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139	Distributed Estimation of Variance in Gaussian Graphical Model via Belief Propagation: Accuracy Analysis and Improvement. IEEE Transactions on Signal Processing, 2015, 63, 6258-6271.	5.3	2
140	Distributed Nonnegative Tensor Canonical Polyadic Decomposition With Automatic Rank Determination. , 2020, , .		2
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142	Training sequences design for symbol timing estimation in MIMO correlated fading channels. , 0, , .		1
143	Timing-synchronization analysis for IEEE 802.11 a wireless LANs on frequency- nonselective Rician fading channels. , 0, , .		1
144	Design of digital blind feedforward nearly-jitter-free timing recovery schemes. , 2004, , .		1

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145	Optimal CFO and channel estimation for OFDMA uplink using importance sampling. , 2007, , .		1
146	Signal processing techniques for synchronization of wireless sensor networks. Proceedings of SPIE, 2010, , .	0.8	1
147	Semi-blind CFO, channel estimation and data detection for OFDM systems over doubly selective channels. , 2010, , .		1
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149	HEA-Loc: A Robust Localization Algorithm for Sensor Networks of Diversified Topologies. , 2010, , .		1
150	Uplink LMMSE Beamforming Design for Cellular Networks with AF MIMO Relaying. , 2011, , .		1
151	A unified linear MSE minimization MIMO beamforming design based on quadratic matrix programming. , 2012, , .		1
152	Determining the convergence of variance in Gaussian belief propagation via semi-definite programming. , 2014, , .		1
153	Equalizing multihop OFDM relay channel under unknown channel orders and Doppler frequencies. , 2014, , .		1
154	Massive MIMO Multicast Beamforming via Accelerated Random Coordinate Descent. , 2019, , .		1
155	Outage Constrained Secrecy Rate Maximization of Intelligent Reflecting Surface Aided Transmission. , 2021, , .		1
156	Unified Analysis of a Class of Blind Feedforward Symbol Timing Estimators Employing Second-Order Statistics. , 0, , .		0
157	Symbol timing recovery for generalized minimum shift keying modulations in software radio receiver. , 0, , .		0
158	ML frame synchronization for IEEE 802.11a WLANs on multipath Rayleigh fading channels. , 0, , .		0
159	Non-data-aided ML symbol timing estimation in MIMO correlated fading channels. , 0, , .		0
160	Frequency synchronization for OFDM systems over doubly-selective channels. , 2008, , .		0
161	Low Complexity Clock Synchronization Algorithm for Wireless Sensor Networks with Unknown Delay. , 2009, , .		0
162	Multiple timing offsets compensation in cooperative communication systems. , 2009, , .		0

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163	Partial Data-Dependent Superimposed Training Based Iterative Channel Estimation for OFDM Systems over Doubly Selective Channels. , 2010, , .		0
164	Non-Orthogonal Transmission in Multi-User Systems with Grassmannian Beamforming. , 2011, , .		0
165	Maximum mutual information design for amplify-and-forward multi-hop MIMO relaying systems under channel uncertainties. , 2012, , .		0
166	Robust Tomlinson-Harashima precoding for non-regenerative multi-antenna relaying systems. , 2012, , .		0
167	QoS constrained robust MIMO transceiver design under unknown interference. , 2012, , .		0
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173	Multiuser CFOs Estimation in OFDMA Uplink Systems. Wireless Networks and Mobile Communications, 2010, , 397-415.	1.0	0
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